



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Blackadar, et al.

Serial No:

09/643,191

Confirmation No:

8703

Filing Date:

August 21, 2000

For:

MONITORING ACTIVITY OF A USER IN LOCOMOTION OF

FOOT

Examiner:

Hal Wachsman

Art Unit:

2857

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Commissioner for Patents, Washington, D.C. 20231, on the day of October, 2002.

Attn: Official Draftsperson Commissioner for Patents Washington, DC 20231

REQUEST FOR APPROVAL AND ENTRY OF FORMAL DRAWINGS

Sir:

Enclosed for filing are forty-two (42) sheets of FORMAL DRAWINGS, Figures 1 through 41, for the above-referenced patent application.

The Commissioner is hereby authorized to charge any fees which may be required to Deposit Account No. 23/2825.

> Respectfully submitted, Thomas P. Blackadar, et al., Applicant

Robert M. Abrahamsen, Reg. No. 40,886 WOLF, GREENFIELD & SACKS, P.C.

600 Atlantic Avenue

Boston, Massachusetts 02210 Telephone: (617) 720-3500

Docket No.: P00663.70019 (RMA)

Date: October 18, 2002

xxNDD 651388.1



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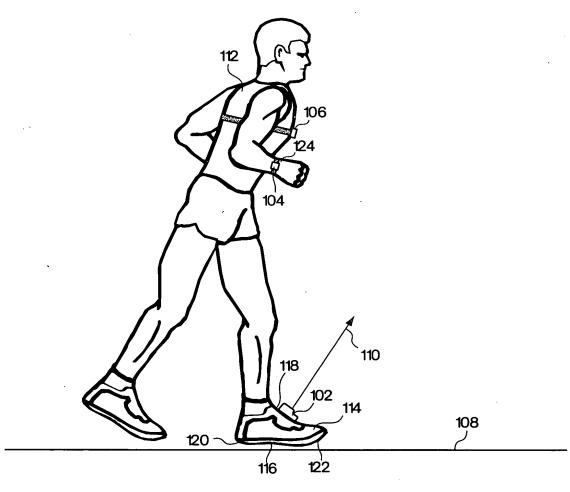


Fig. 1



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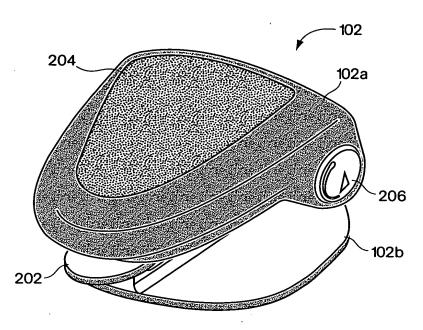
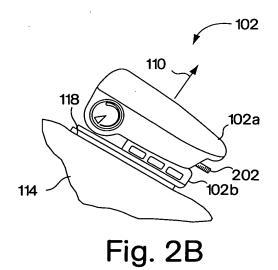


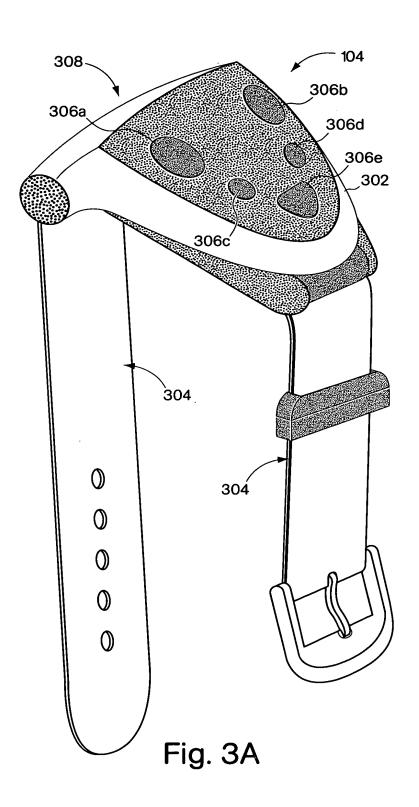
Fig. 2A





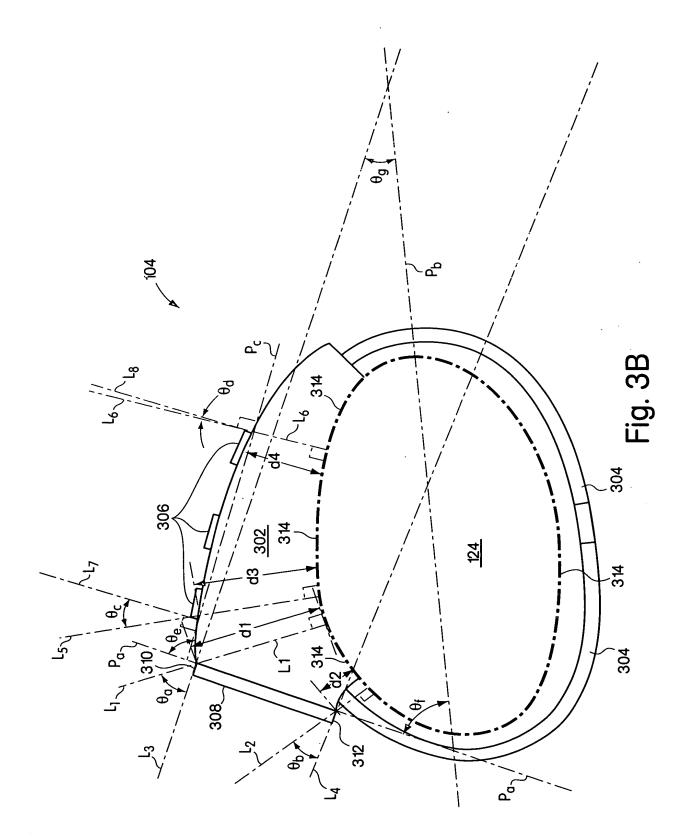
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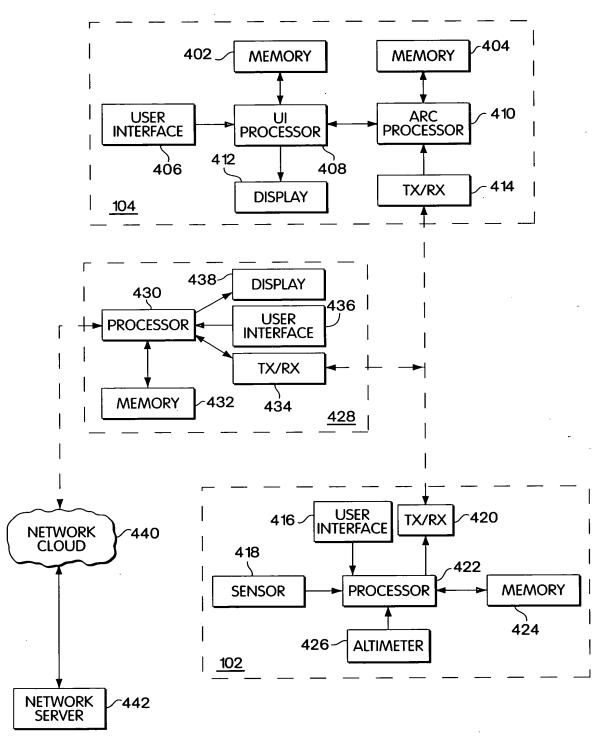
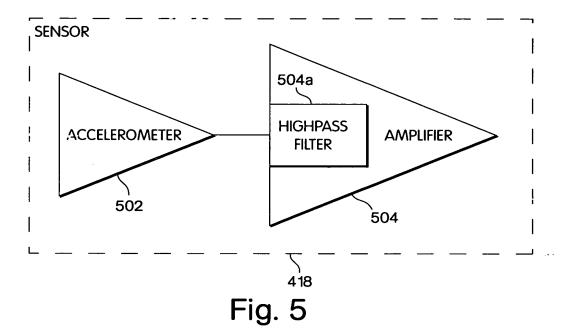


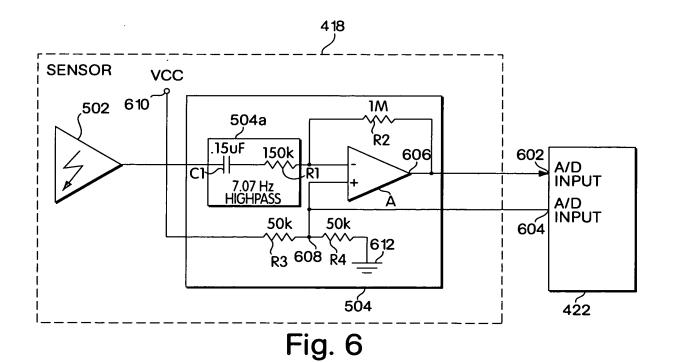
Fig. 4



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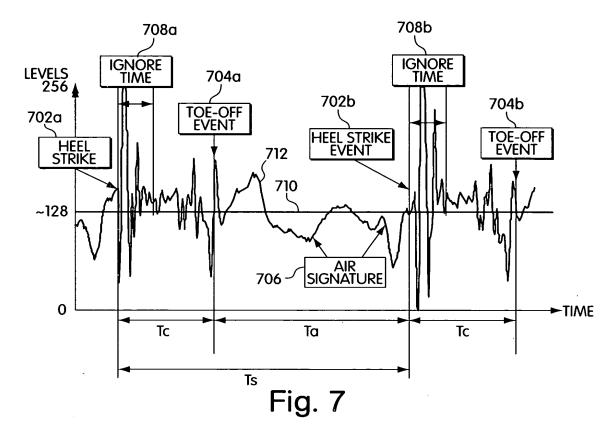


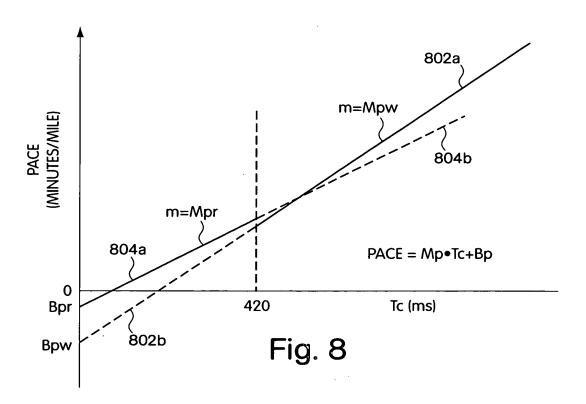




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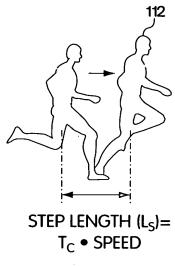


Fig. 9

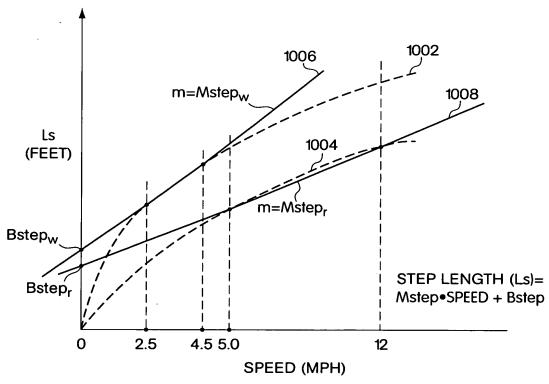


Fig. 10

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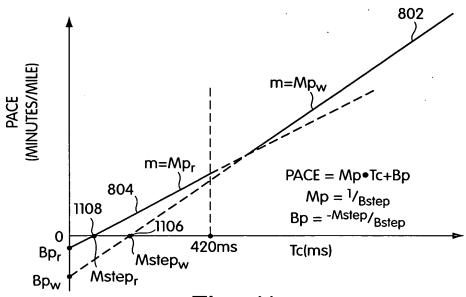
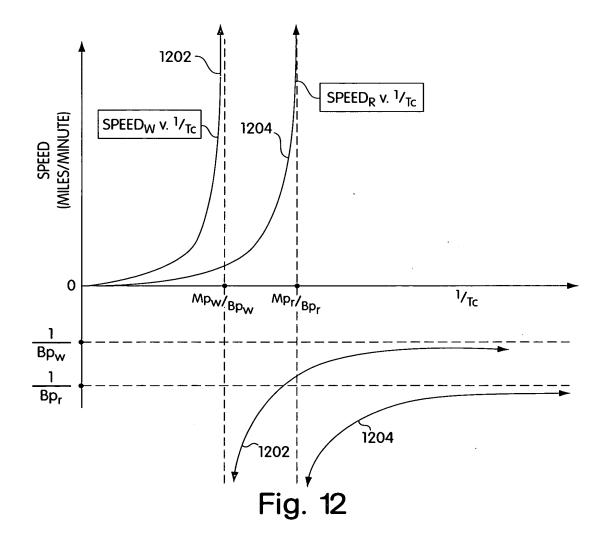


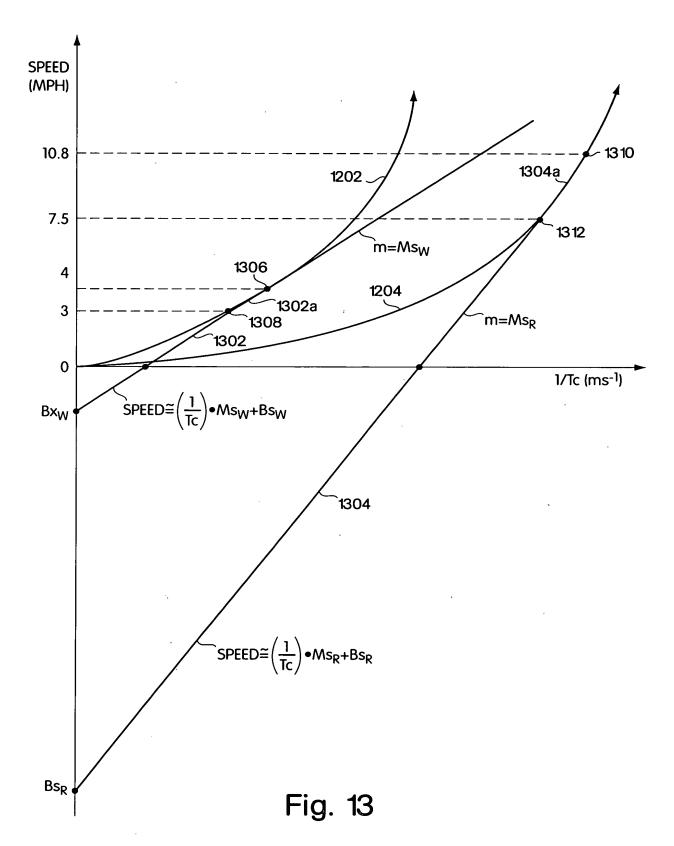
Fig. 11





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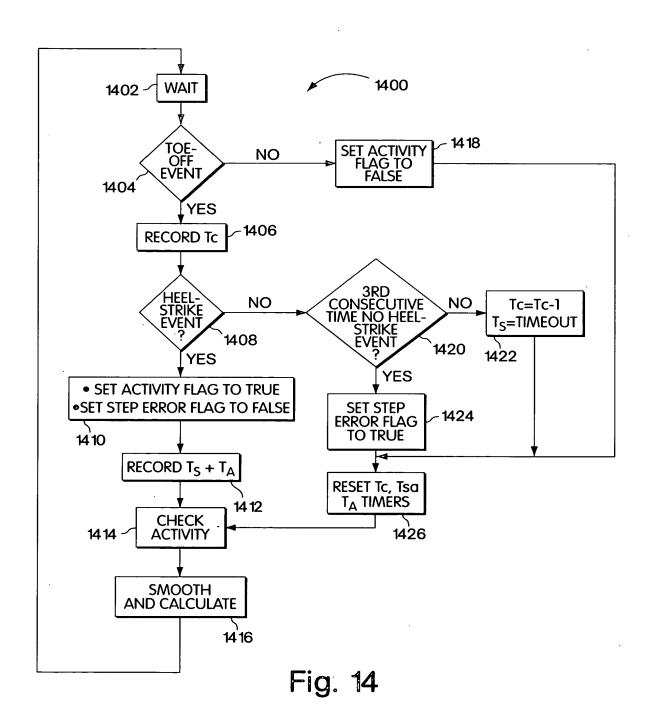
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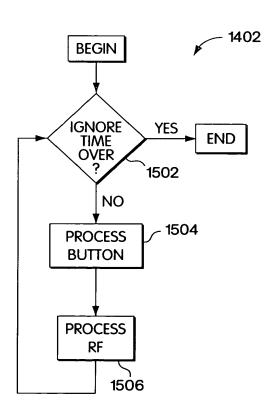


Fig. 15



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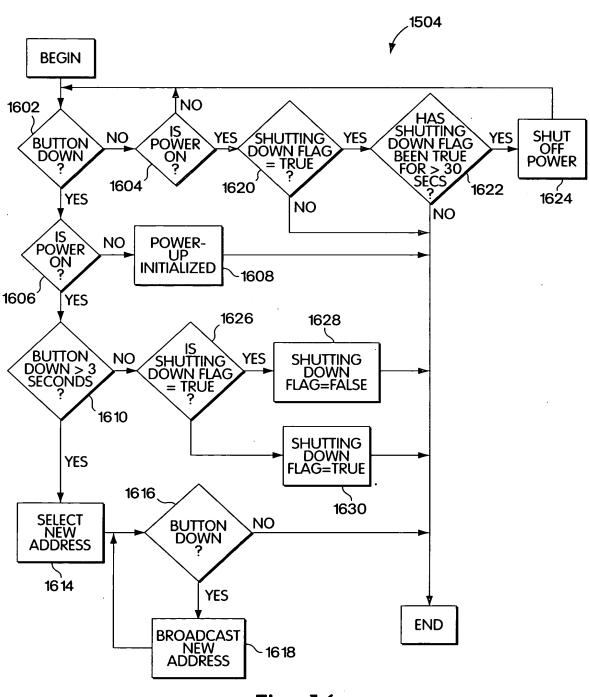


Fig. 16



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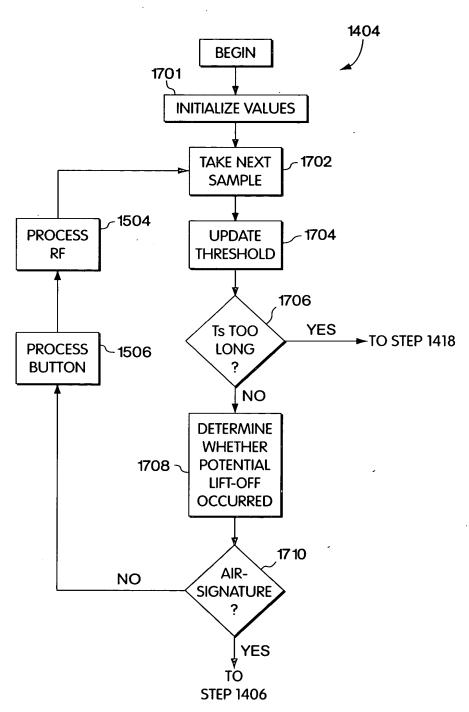
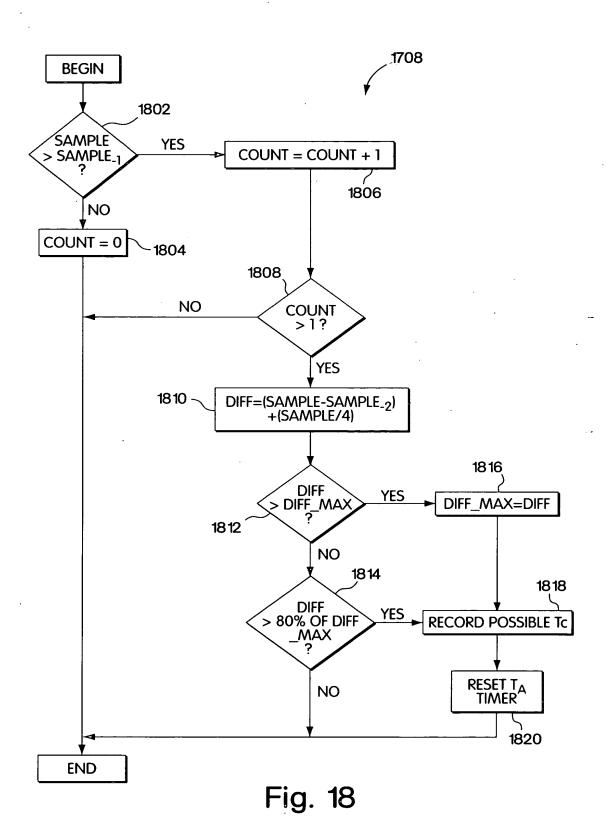


Fig. 17



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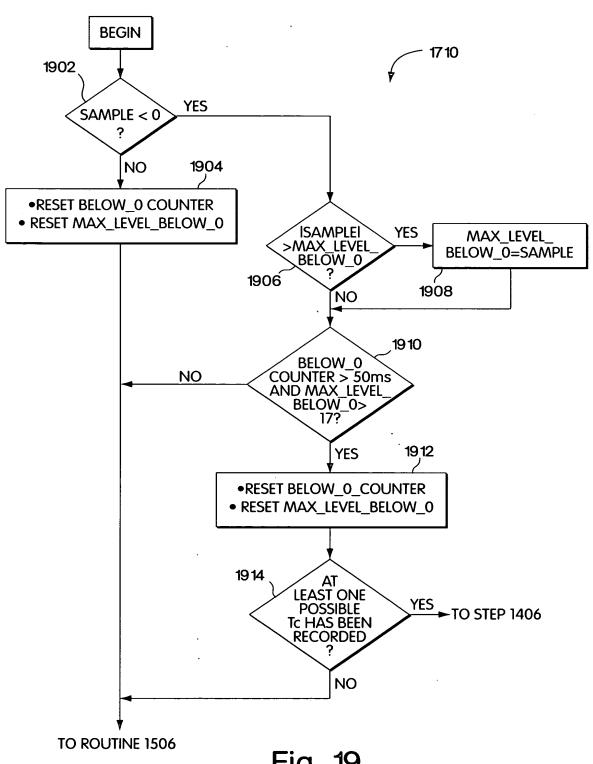
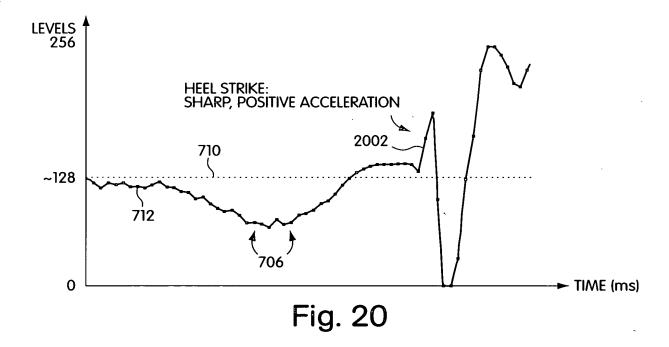


Fig. 19



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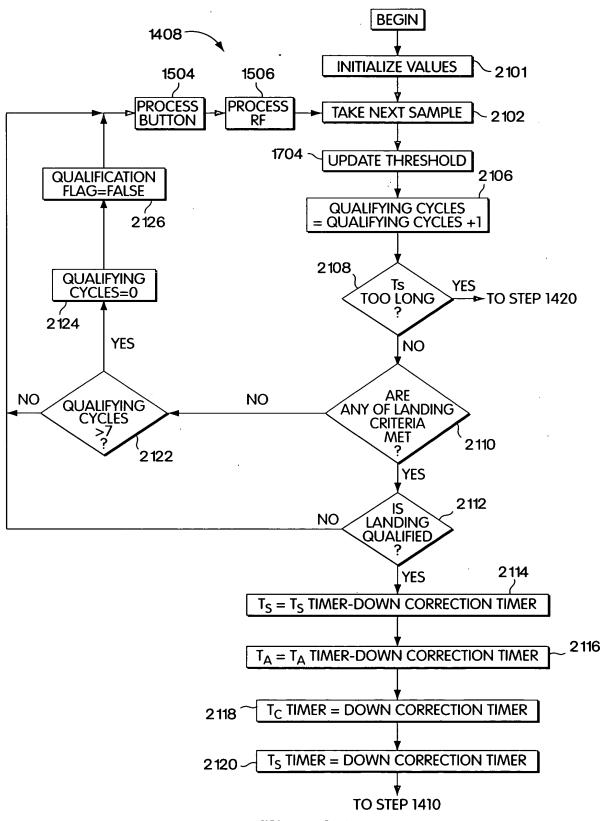
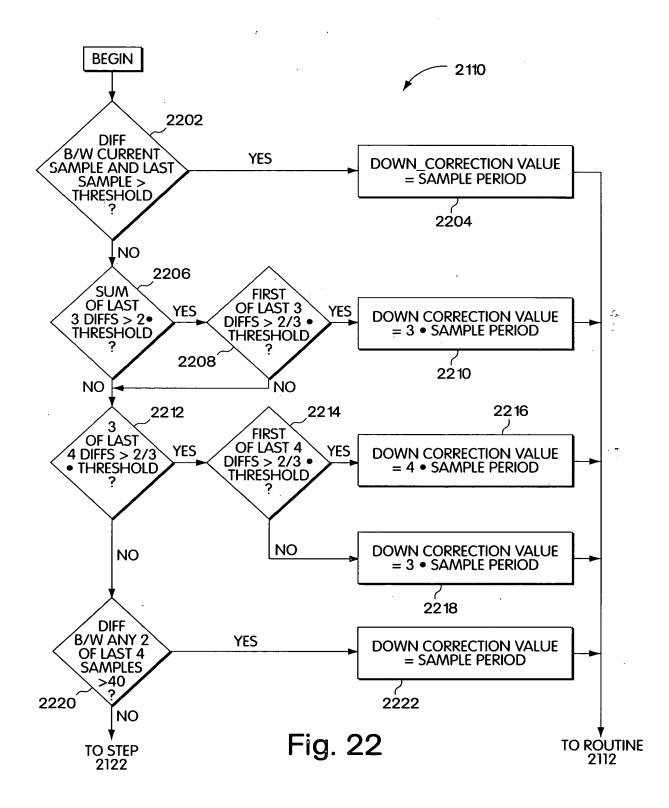


Fig. 21



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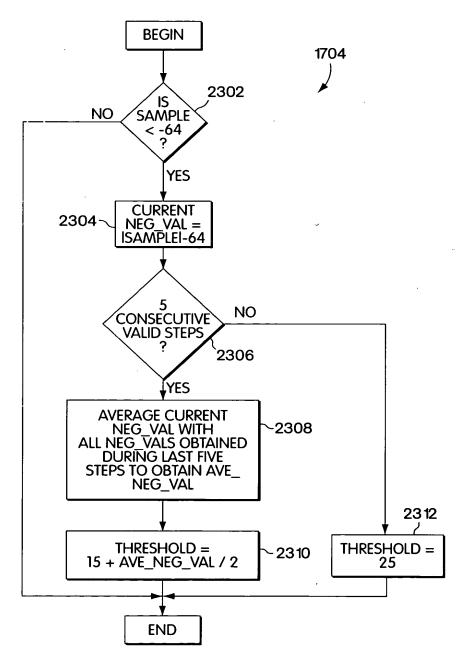


Fig. 23



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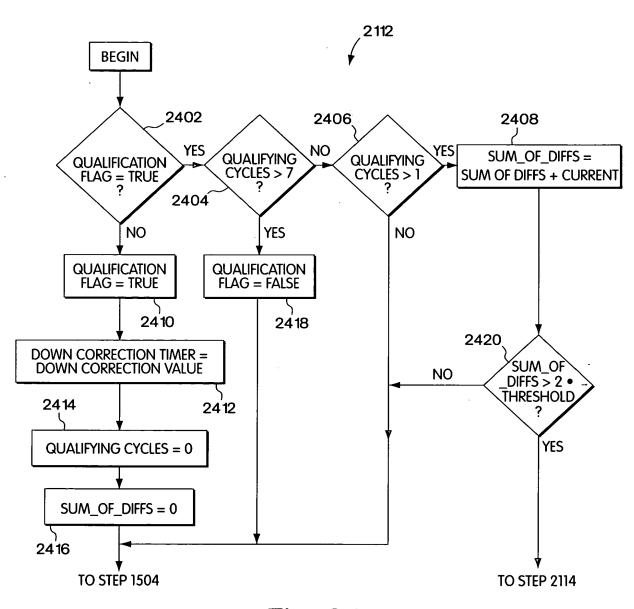


Fig. 24



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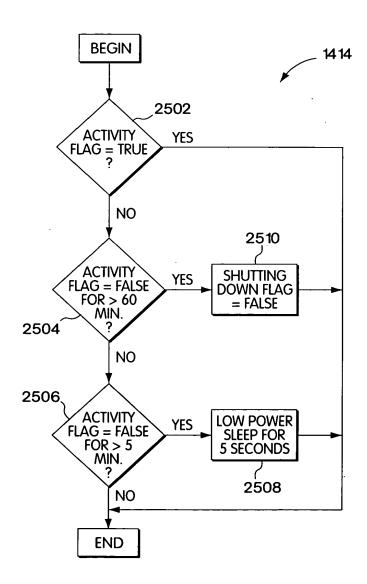


Fig. 25



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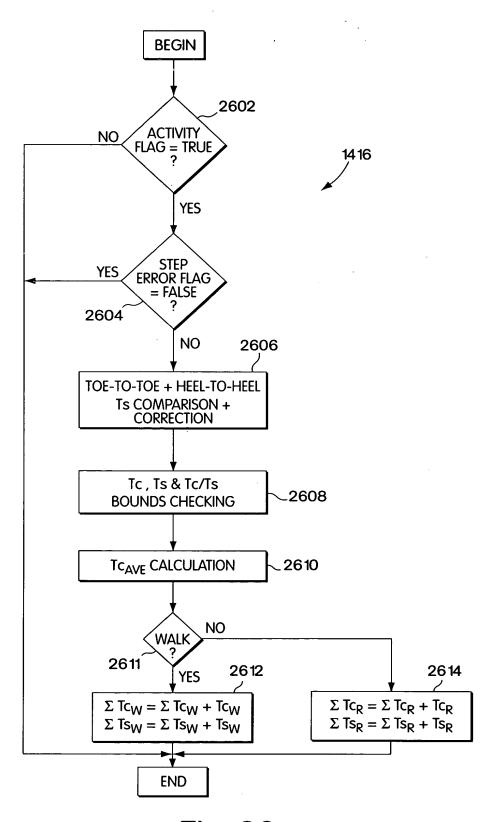


Fig. 26

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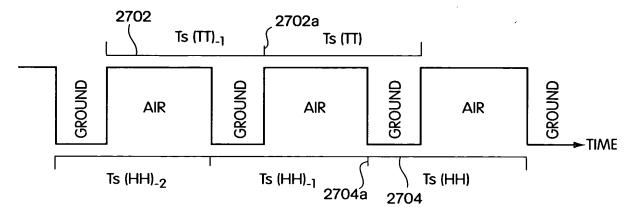
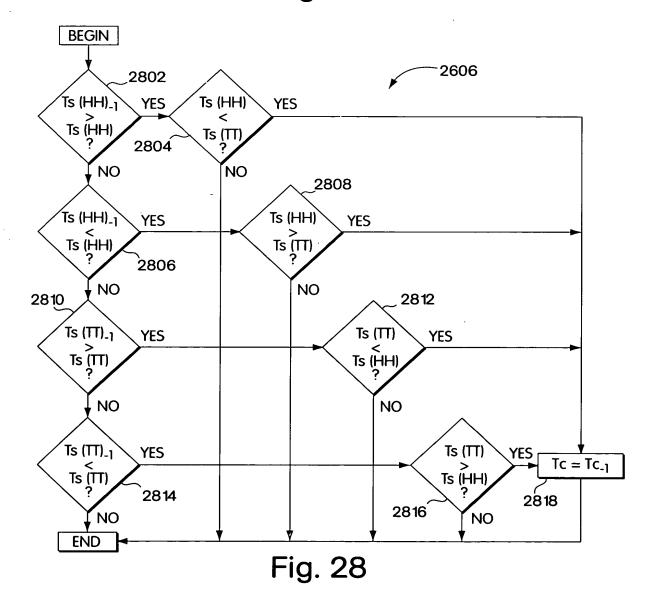


Fig. 27





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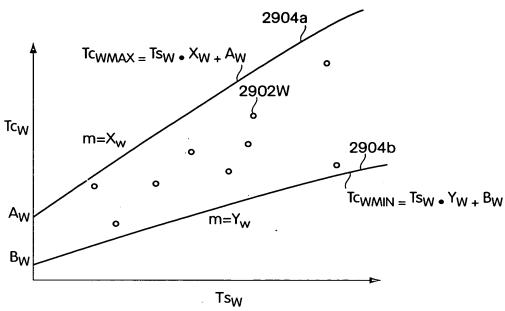


Fig. 29A

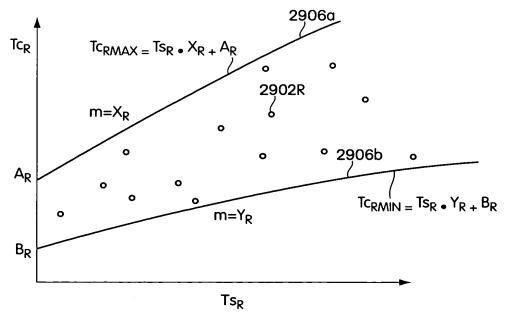


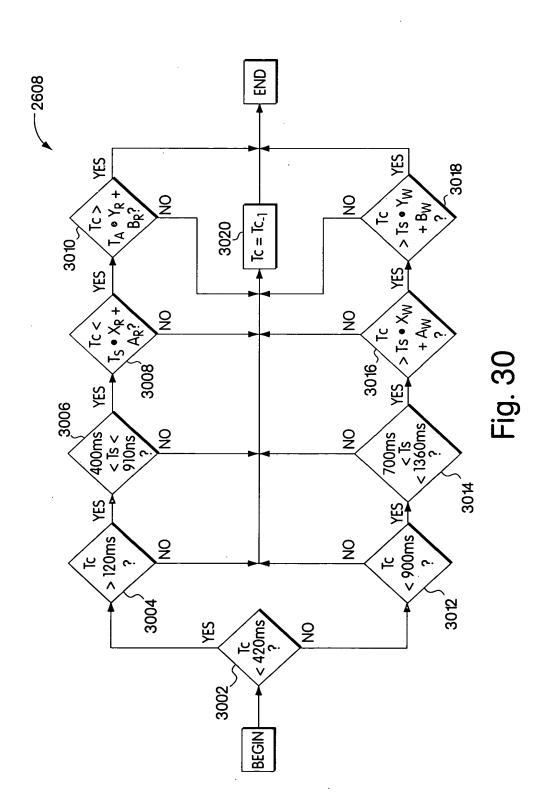
Fig. 29B



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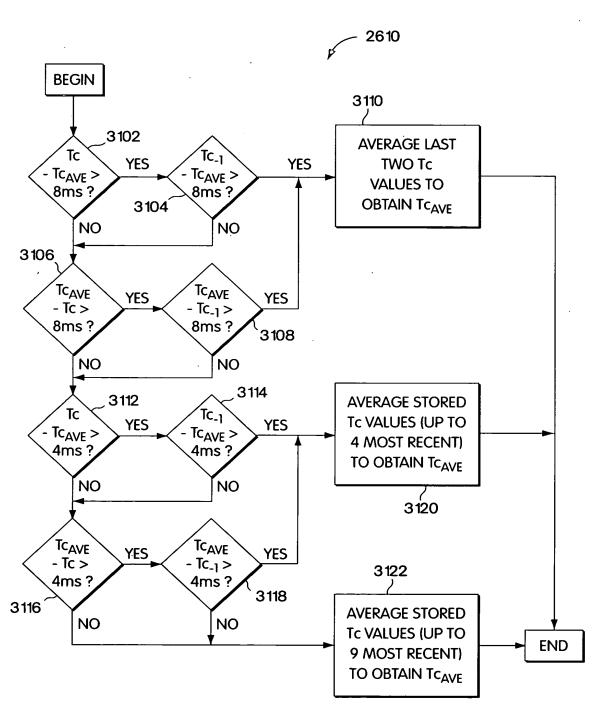


Fig. 31



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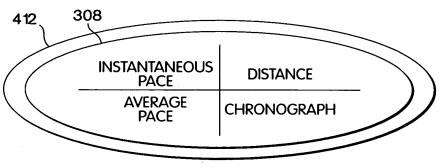


Fig. 32A

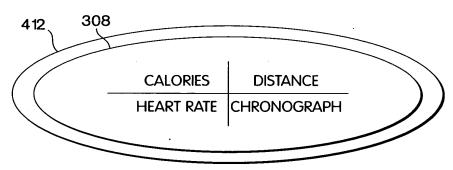


Fig. 32B

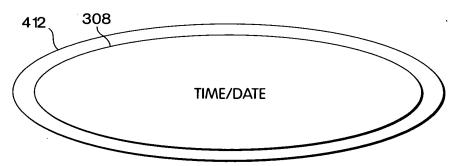


Fig. 32C

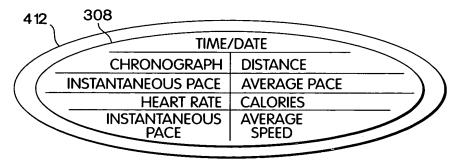


Fig. 32D



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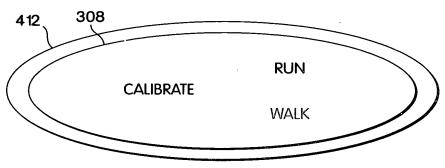


Fig. 32E

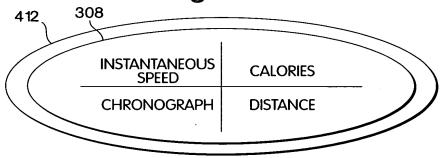


Fig. 32F

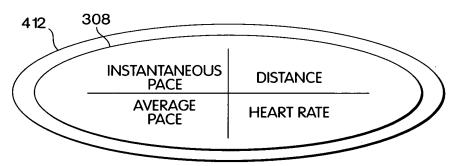


Fig. 32G

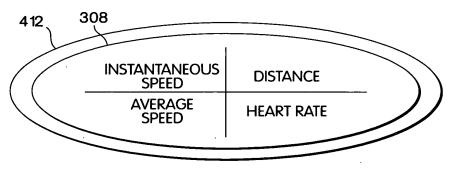
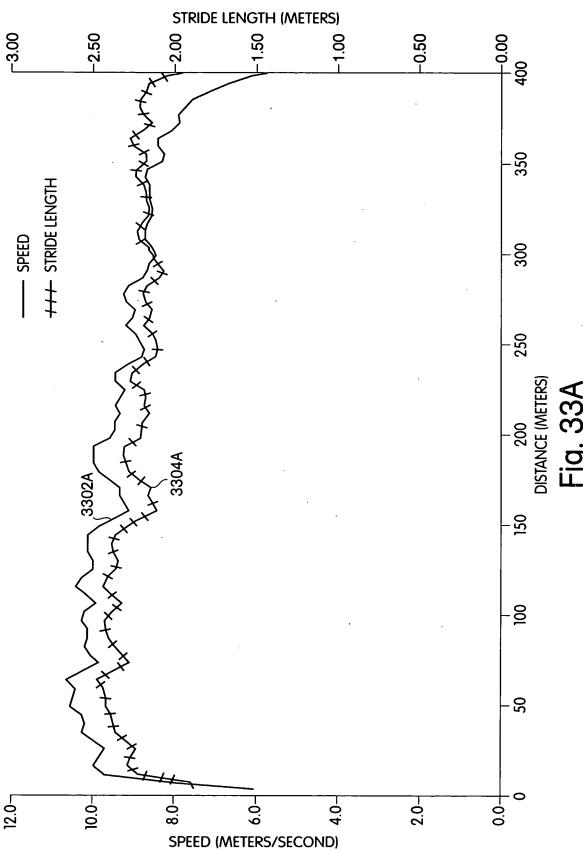


Fig. 32H



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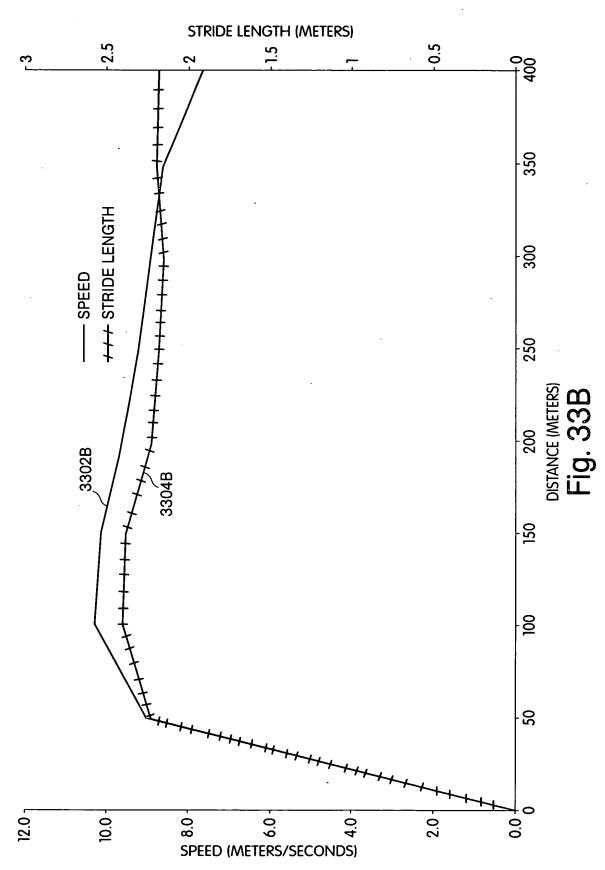




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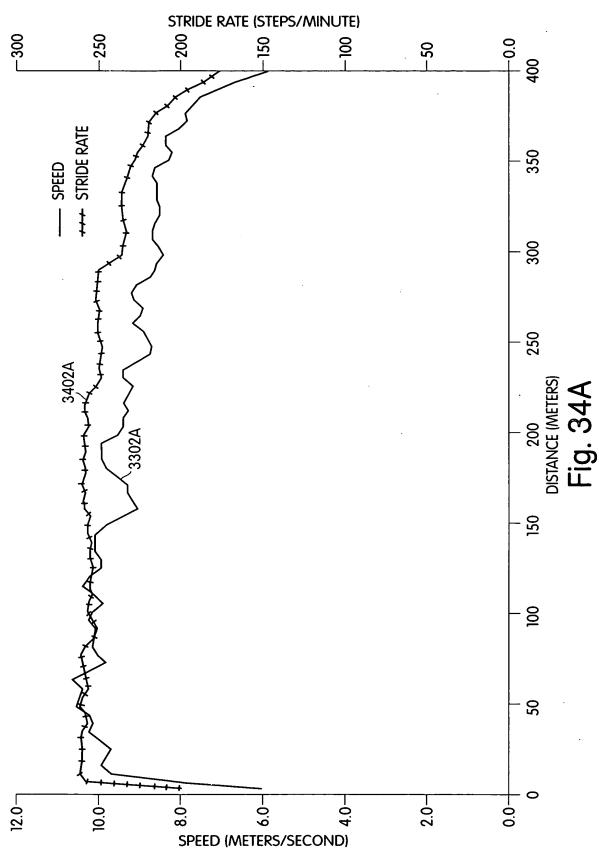


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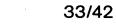


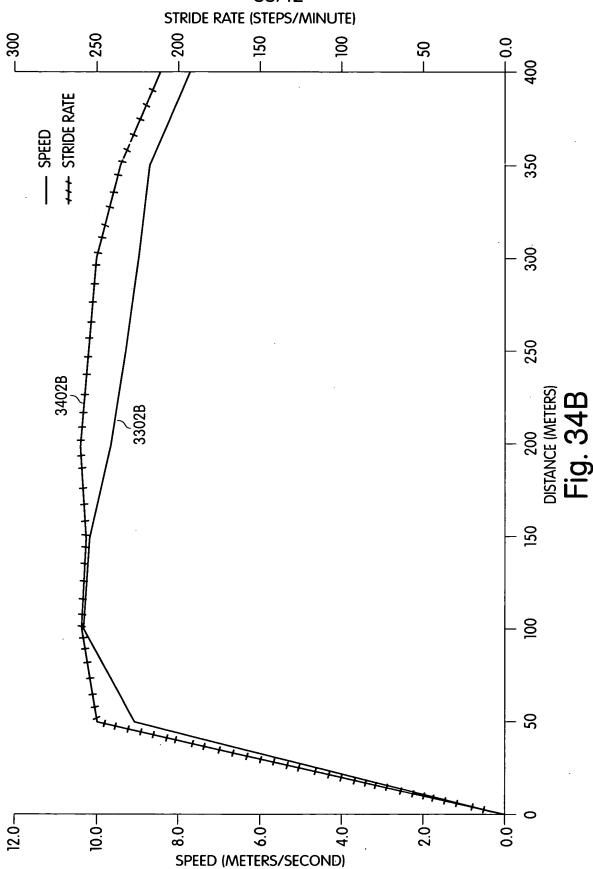


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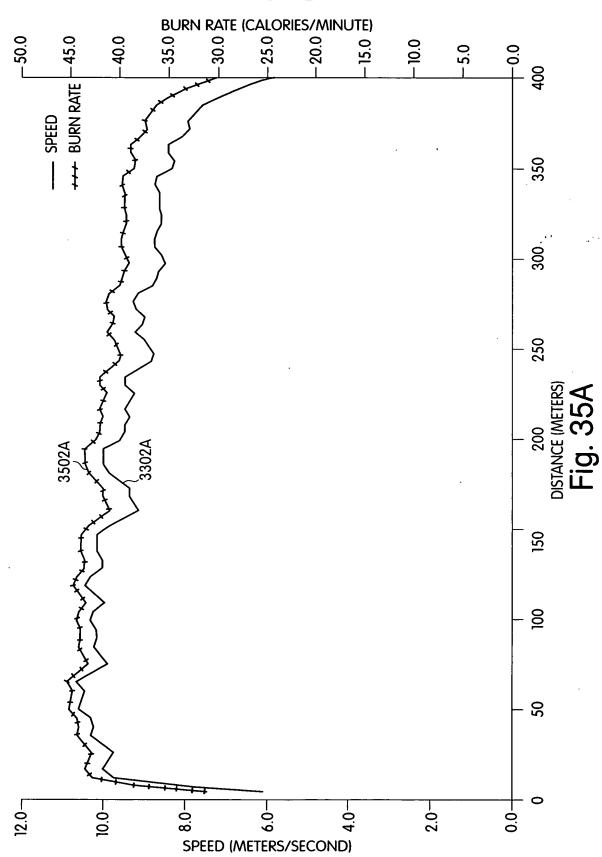


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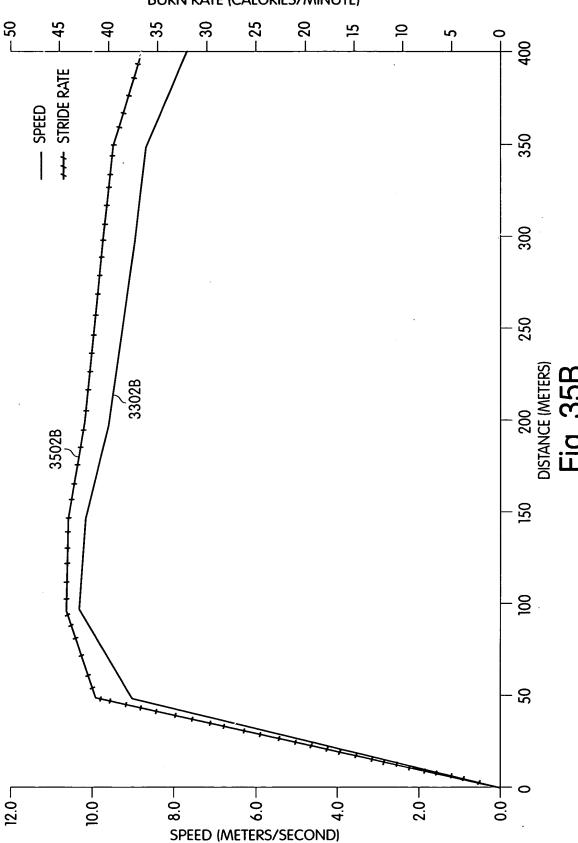




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35/42 **BURN RATE (CALORIES/MINUTE)**

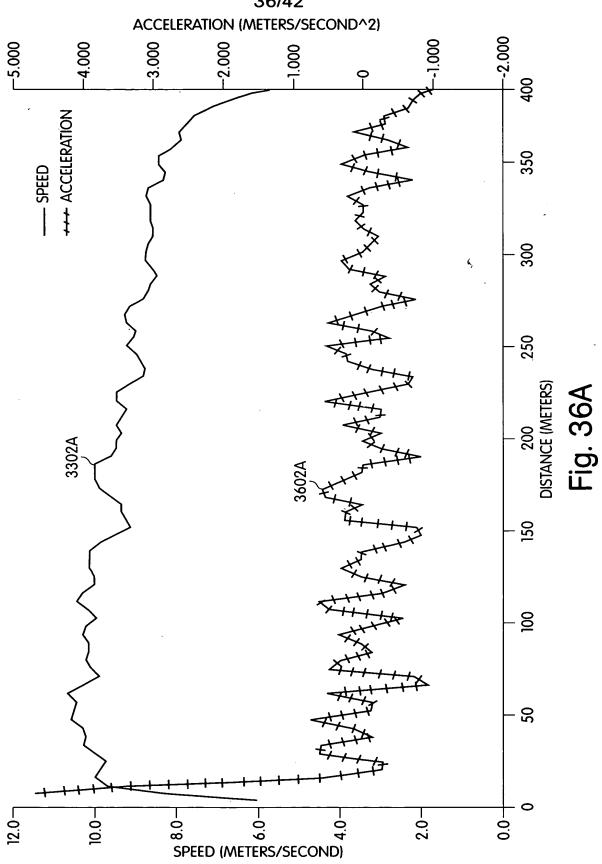




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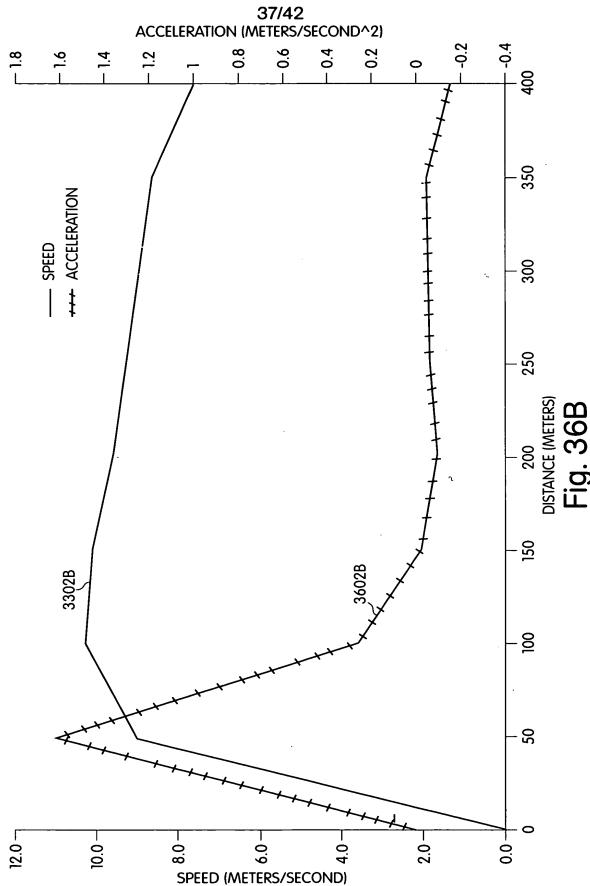






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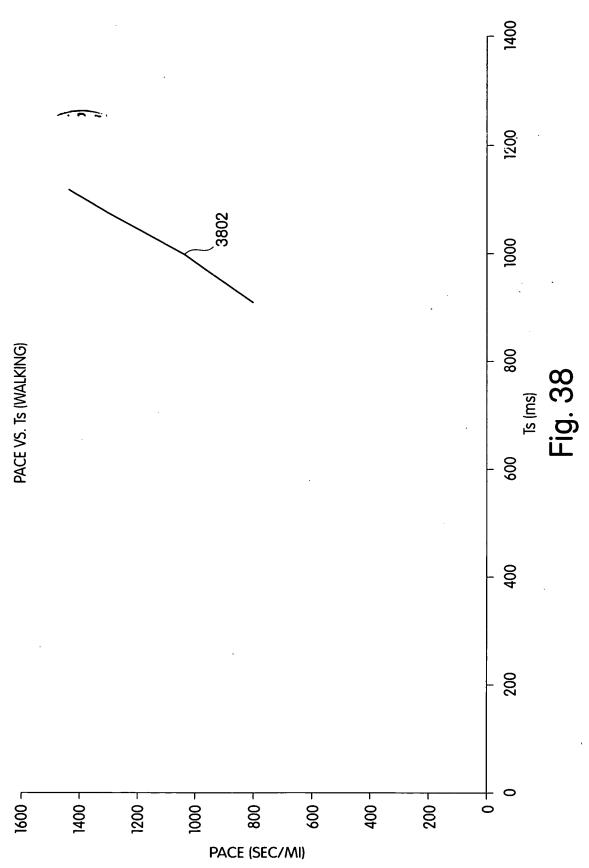
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E AVERAGE AVERAGE AVERAGE STRIDE AVERAGE AVERAGE STRIDE AVERAGE BURN TOTAL ACCELERATION OND LENGTH STRIDE RATE RATE CALORIES CALORIES METERS/SCOOLD ARTERS/SCOOLD ARTERS/SCOOLD O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O
AVERAGE AVERAGE STRIDE AVERAGE BATE SPEED LENGTH LENGTH STRIDE RATE RATE MPH METERS FEET INCHES STRIDE RATE RATE 0 0 0 0 0 0 20.1 2.22 7 3 249.5 41.1 22.9 2.39 7 9 257.9 44.2 22.9 2.37 7 9 256.1 43.9 20.7 2.18 7 1 255.1 41.3 20.7 2.18 7 1 255.1 40.5 20.0 2.15 7 2.50.4 40.5 19.4 2.20 7 2.36.1 39.6
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u OND u
AVERAGE SPEED O O O 9.0 P.6 P.6 P.6 P.6 P.7
SPLIT TIME SECONDS 0 0 4.9 4.9 5.2 5.4 5.6 5.6
DISTANCE RACE TIME SPLIT TIME METERS SECONDS SECONDS 0 0 0 50 5.6 5.6 100 10.4 4.9 150 15.4 4.9 200 20.6 5.4 250 26.0 5.4 300 31.6 5.6 350 37.4 5.8
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SPLITS



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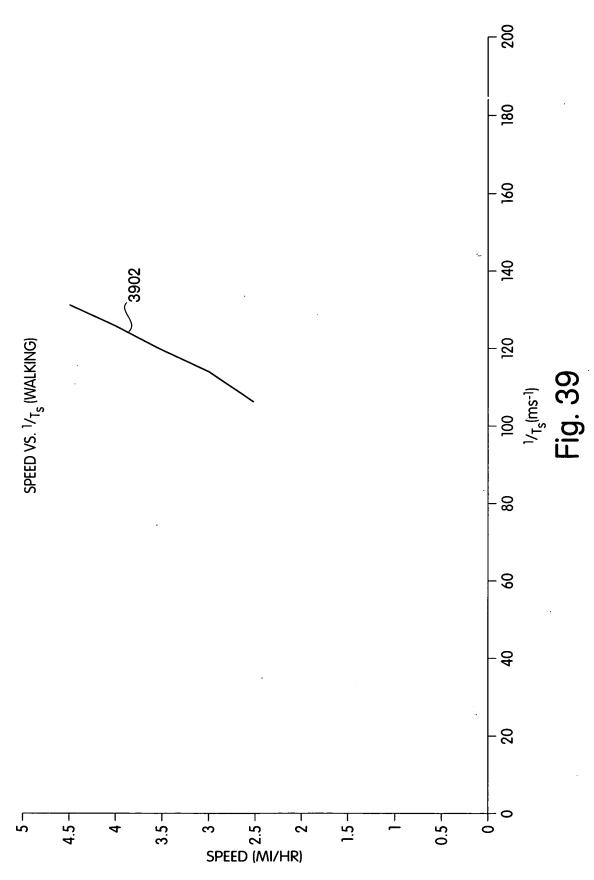




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STRESS PER MINUTE								
STEPS PER	MINUTE	82	85	88	92	94	26	100
STRESS PER 1/10 MILE	(LBS)	17881	16667	15177	14423	14019	13235	12908
STEPS	PER MILE	986	855	290	069	627	583	545
AVERAGE GROUND FORCE	(LBS)	181	195	200	209	224	227	237
<u> </u>	(sm)	730	702	9/9	652	638	618	009
ည	(ms)	302	270	254	234	214	204	190
PACE	(SECONDS/MILE)	720	009	514	450	400	360	327
SPEED	(MPH)	ည	9	7	ω	တ	욘	=

Fig. 40

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